



FortiAP 231E

QuickStart Guide



February 11, 2020

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Product Registration

Thank you for purchasing a FortiAP. To access:

- Cloud Management
- FortiGuard Updates
- Firmware Upgrades
- Technical Support
- Warranty Coverage

Please register your FortiAP device:

Vous devez enregistrer le produit:

Debe registrar el producto:

登録のお願い:

请马上注册:

<http://support.fortinet.com>

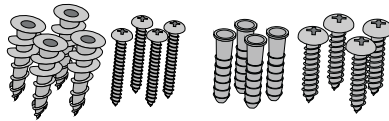
Package Contents



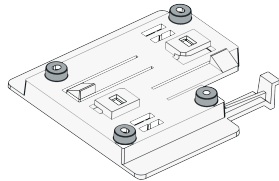
FortiAP Device



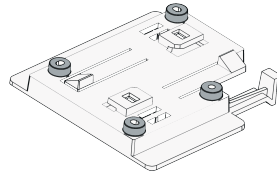
QuickStart Guide



8 x Mounting Screws with 8 x Anchors

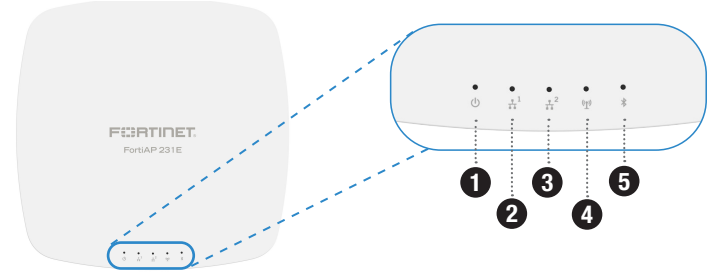


9/16" Ceiling Mounting Bracket



15/16" Ceiling Mounting Bracket

FortiAP 231E - Front



1 Power (PoE 802.3at or 12V DC 2.5A)

- Off:** Device is off
- Green:** Device is on
- Blinking Green:** Booting up
- Orange:** Reserved for customizations

2 LAN 1 (1Gbps 802.3at PoE RJ45)

- Off:** Link is off
- Green:** Link is on
- Blinking Green:** Transmitting at 1Gbps
- Blinking Orange:** Transmitting at 100Mbps

3 LAN 2 (1Gbps RJ45)

- Off:** Link is off
- Green:** Link is on
- Blinking Green:** Transmitting at 1Gbps
- Blinking Orange:** Transmitting at 100Mbps

4 WiFi (5GHz & 2.4GHz 2x2 MU-MIMO)

- Off:** Radio 1 & 2 are off
- Blue:** Radio 1 is on
- Blinking Blue:** Radio 1 is transmitting data
- Orange:** Radio 2 is on
- Blinking Orange:** Radio 2 is transmitting data
- Green:** Radio 1 & 2 are on
- Blinking Green:** Radio 1 & 2 are transmitting data

5 Bluetooth Low Energy (BLE) & WiFi

- Off:** BLE & Radio 3 are off
- Blue:** BLE is on
- Blinking Blue:** BLE is transmitting data
- Orange:** Radio 3 is on
- Blinking Orange:** Radio 3 is transmitting data
- Green:** BLE & Radio 3 are on
- Blinking Green:** BLE and Radio 3 are transmitting data

FortiAP 231E - Ports



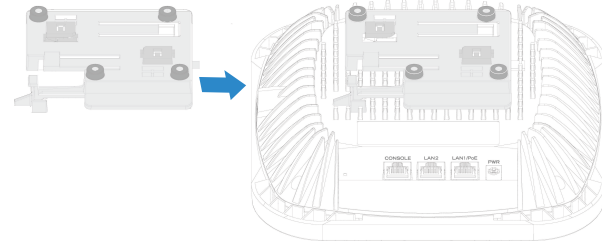
- 1** CONSOLE (RJ-45) CLI management computer interface
- 2** LAN2 (RJ-45) 1 Gbps Ethernet interface
- 3** LAN1/POE (RJ-45) 1 Gbps 802.3 at PoE Ethernet interface
- 4** PWR (12V DC) Optional 12V DC 2.5A adapter

Note: For optional items and accessories such as console cables, DC adapters and various mounting brackets, contact Fortinet.

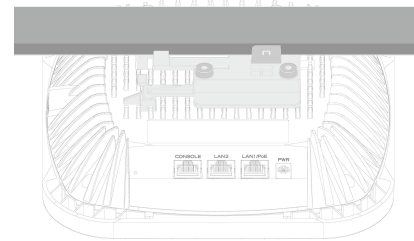
Ceiling Installation

The FortiAP mounts on a ceiling using the provided T-rail mounting brackets which come in two standard sizes: 1.43cm (9/16in) and 2.38cm (15/16in)

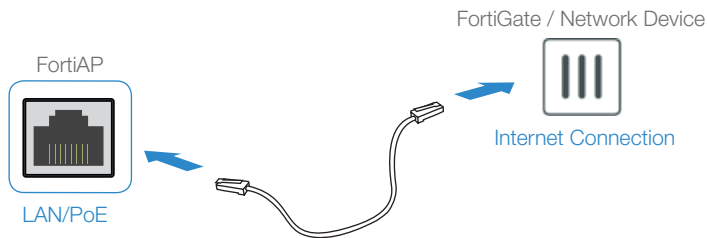
- 1. Select the bracket for the T-rail size: 1.43cm (9/16in) or 2.38cm (15/16in)
- 2. With the ports facing you, slide the bracket left to right



- 3. Hold the device against the ceiling T-rail and push until it snaps into place



Basic Connections



1. Connect the FortiAP device to a [FortiGate controller](#) or an [Internet connection](#)
2. Ensure that the [Power over Ethernet \(PoE\)](#) cable is connected to an applicable port on your [FortiGate device](#) or [PoE injector](#)

Optional: If you are not using PoE, connect the DC plug of the optional power 12V 2.5A power adapter into the FortiAP power jack and the AC plug from the adapter into a power outlet.

Warning: This device complies with [IEEE 802.3 af/at](#) PoE specification. Do not use any [PoE injectors](#) that are not [IEEE 802.3 at compliant](#) as they may damage your device.

Device Setup

Set up your device locally or on the cloud. Choose one of the following options to complete your setup and configure your device.



FortiAP Cloud

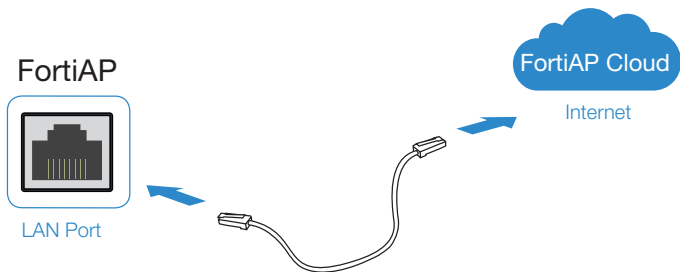
FortiAPCloud is a [cloud-based](#) FortiAP [management solution](#) and log retention service. It provides centralized reporting, traffic analysis, configuration management, and log retention.



FortiGate Deployment

Your FortiAP can be [preauthorized](#) and [configured](#) using a [FortiGate](#). You can also authorize your FortiAP after you have connected it to the same network. If the FortiGate is not on the same network as the FortiAP, you can [log directly into the AP](#) and authorize it via the [CLI](#).

FortiAP Cloud

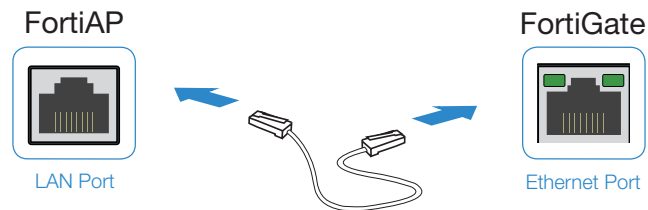


1. Log in to fortiapcloud.com using your FortinetOne credentials
2. Click [Inventory](#), then click [Import AP Key](#)

The screenshot shows a dialog box titled 'Add AP' with a close button (X) in the top right corner. Inside the dialog, there is a text input field with the placeholder text 'Please input the FortiAPCloud Key to add an AP:'. Below the input field is a blue 'Submit' button.

3. Input the [Cloud Key](#) located on the [sticker](#) on your device

FortiAP Deployment



If the FortiGate is on the same network as the FortiAP:

1. [Preauthorize](#) your [FortiAP](#) device using your [FortiGate](#)
2. [Plug](#) the [FortiAP](#) into your local [Ethernet](#) connection
3. The [FortiAP](#) will [self-configure](#)

Or

1. Instead of preauthorizing, [authorize the FortiAP](#) device [after you have connected](#) the [FortiAP](#) to the network
2. Within two minutes of connecting the FortiAP to your FortiGate, the device will appear on the [Managed FortiAP](#) page in the [GUI](#) to authorize and assign a profile

Info: Refer to the “Access Point Configuration” section of the FortiWiFi and FortiAP Configuration Guide found at <https://docs.fortinet.com/product/fortiap>

If FortiGate is not on the same network as the FortiAP:

1. Log in to the FortiAP directly (IP address: 192.168.1.2) with username admin and no password, and specify the IP address of the controlling FortiGate
2. Specify the IP address of the controlling FortiGate:

```
cfg -a AC_IPADDR_1=0.0.0.0
```

```
cfg -c
```

where 0.0.0.0 is the address of the FortiGate
3. The FortiAP device connects to the FortiGate, and then you can authorize the FortiAP

Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C–40°C.

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Caution: This equipment is to be used in a Network Environment 0 per IECTR 62101. This product is connected only to PoE networks without routing to the outside plant.

Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12 Vdc, 2.5A or by 51 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 2.5A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 51 Vdc (PoE).

Regulatory Notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 26cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution: Operation of this device is restricted to indoor use only.

For operation within 5.15–5.25 GHz frequency range, it is restricted to indoor environment.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Innovation, Science and Economic Development (ISED) – Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSSI(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis/Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 26cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 26cm de distance entre la source de rayonnement et votre corps.

The maximum antenna gain permitted for devices in the band 5725–5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

Le gain maximal d’antenne permis (pour les dispositifs utilisant la bande 5725–5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l’exploitation point à point et non point à point, selon le cas.

Caution: The device for the band 5150–5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Attention: Le dispositif de la bande 5150–5250 MHz est réservé à un usage intérieur afin de réduire l’interférence nuisible potentielle aux systèmes mobiles par satellite co-canal.

This device has been designed to operate with an antenna having a maximum gain of 4.7 dBi for 2.4 GHz and 5.6 dBi for 5 GHz. Antenna having a higher gain is strictly prohibited per regulations of ISED. The required antenna impedance is 50 ohms.

Under ISED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotopically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de 4.7 dBi pour 2.4 GHz et 5.6 dBi pour 5 GHz. Une antenne ayant un gain supérieur sont strictement interdites par la réglementation d’ISED. L’impédance d’antenne requise est de 50 ohms.

Conformément à la réglementation d’ISED, cet émetteur radio peut fonctionner seulement avec une antenne d’un type et d’un gain maximal (ou inférieur) approuvé pour l’émetteur par ISED. Dans le but de réduire les risques de brouillage radioélectrique aux autres utilisateurs, il faut choisir le type d’antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l’intensité nécessaire à l’établissement d’une communication réussie.

This radio transmitter (IC: 7280B-37176T0464) has been approved by ISED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 7280B-37176T0464) a été approuvé par ISED pour fonctionner avec les types d’antenne énumérés ci-dessous et ayant un gain admissible maximal et l’impédance requise pour chaque type d’antenne. Les types d’antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l’exploitation de l’émetteur.

This device and it’s antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionner en association avec une autre antenne ou transmetteur.

Qty	Antenna Type	Connector	Gain (dBi)	
			2.4 GHz	5 GHz
Internal Antenna Model				
2	PIFA	IPEX	4.7	–
2	PIFA	IPEX	–	5.6
Bluetooth				
1	Chip	IPEX	5.1	–

European Conformity (CE) – EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



The product transmits within the frequency ranges and less than or equal to the power listed below:
2412–2472 MHz less than 20 dBm
5180–5240 MHz less than 23 dBm
5260–5320 MHz less than 23 dBm *
5500–5700 MHz less than 30 dBm *

Note: * Only with DFS bands certification.

This equipment should be installed and operated with minimum distance 26cm between the radiator and your body.

Simplified EU Declaration of Conformity

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Български
Този продукт е в съответствие с Директива 2014/53/ЕЧ.

Česky
Tento produkt je v souladu se směrnici 2014/53/EU.

Dansk
Dette produkt er i overensstemmelse med direktiv 2014/53/EU.

Deutsch
Dieses Produkt entspricht der Richtlinie 2014/53/EU.

Eesti
See toode vastab direktiivile 2014/53/EL.

English
This product is in compliance with Directive 2014/53/EU.

Español
Este producto cumple con la Directiva 2014/53/UE.

Ελληνική
Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Français
Ce produit est conforme à la Directive 2014/53/UE.

Hrvatski
Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

Italiano
Questo prodotto è conforme alla Direttiva 2014/53/UE.

Latviski
Šis gaminys atitinka direktyvą 2014/53/UE.

Lietuvių
Šis gaminys atitinka direktyvą 2014/53/ES.

Malti
Dan il-prodott huwa konformi mad-Direttiva 2014/53/UE.

Magyar
Ez za termék megfelel a 2014/53/EU irányelvnek.

Nederlands
Dit product is in overeenstemming met Richtlijn 2014/53/UE.

Norsk
Dette produktet er i samsvar med direktiv 2014/53/EU.

Polski
Ten produkt jest zgodny z dyrektywą 2014/53/UE.

Português
Este produto está em conformidade com a Diretiva 2014/53/UE.

Rumunski
Acest produs este în conformitate cu Directiva 2014/53/UE.

Slovensky
Tento produkt je v súlade so smernicou 2014/53/EÚ.

Slovensko
Ta izdelek je v skladu z Direktivo 2014/53/UE.

Suomi
Tämä tuote on direktiivin 2014/53/EU mukainen.

Svenska
Denna produkt överensstämmer med direktiv 2014/53/EU.

Note: The full declaration of conformity for this product is available at the link below:
<https://site.fortinet.com/ProductRegulatory/EU>

National Telecommunications Commission (NCC) – Taiwan

NCC 語
根據NCC低功率電波輻射性電機管理辦法規定：

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

無線資訊傳輸設備避免影響附近雷達系統之操作。

電磁波曝露量MPE標準值1mW/cm2，本產品使用時建議應距離人體 26cm

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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